

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632333

Luminaire Tested: GWS-SA2C-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-740-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8145.6 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

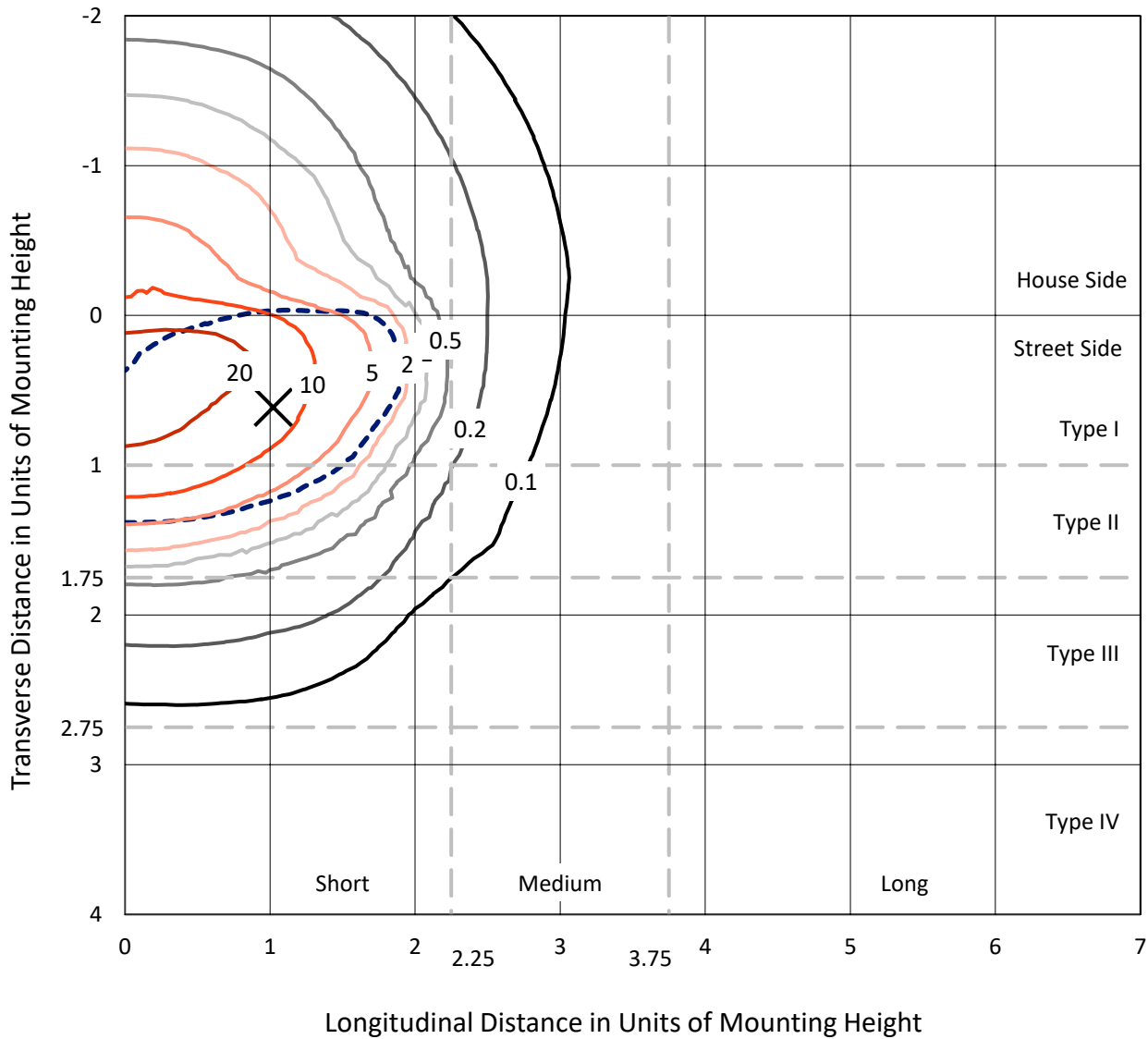
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

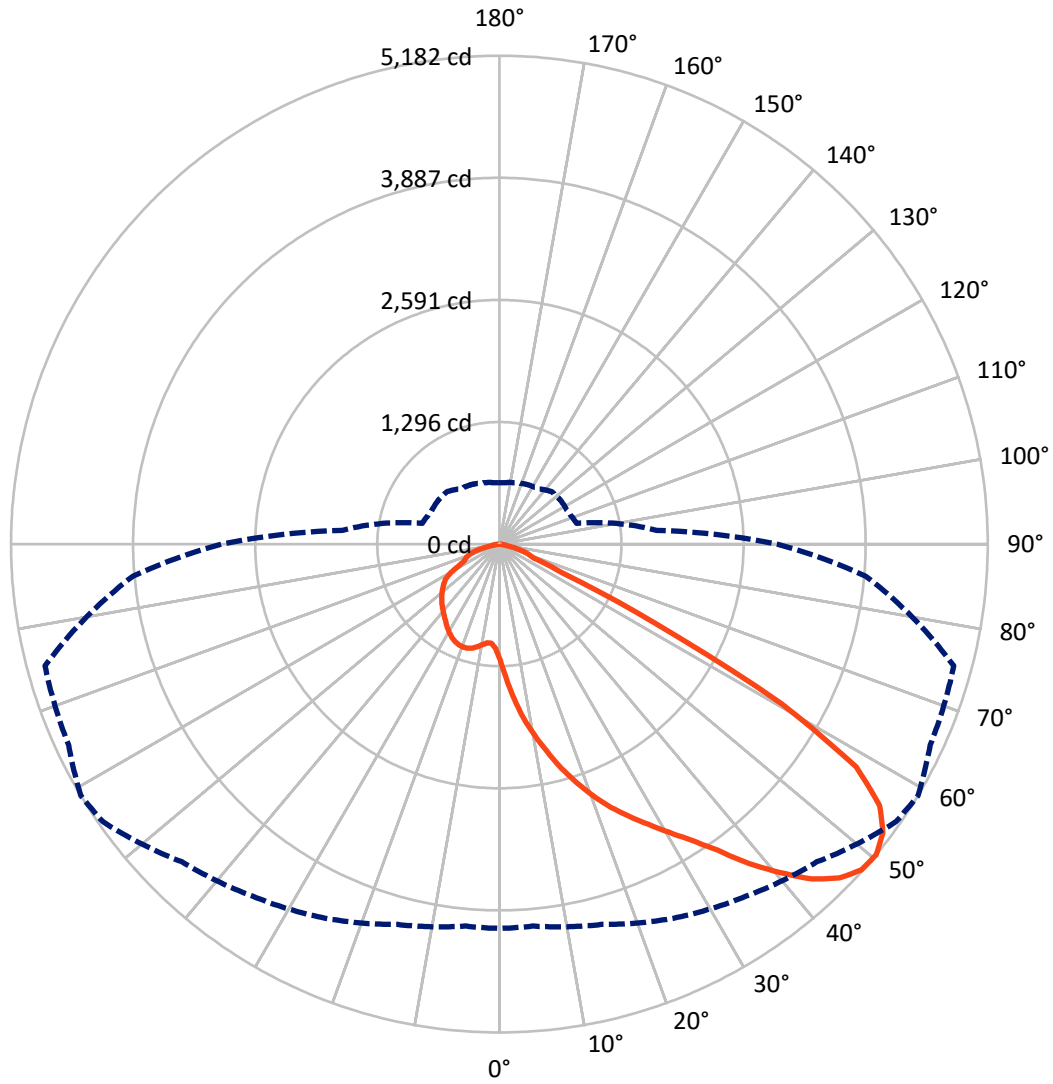
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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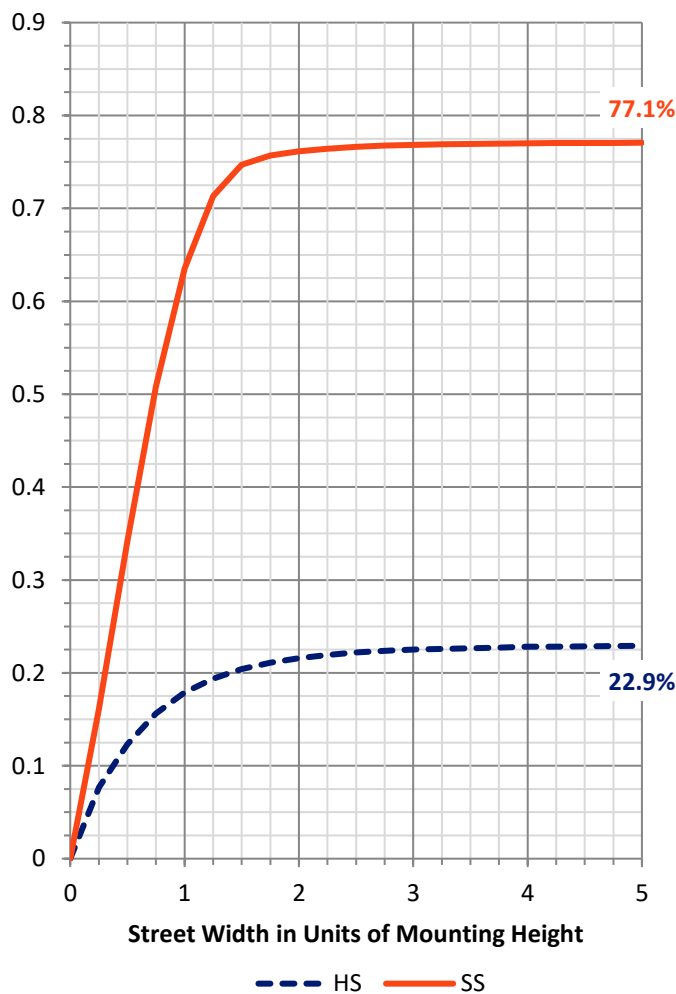
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1873.6	0.0	1873.6
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	6272.0	0.0	6272.0
	% Fixture	77.0	0.0	77.0
Total	Lumens	8145.6	0.0	8145.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.7
10°-20°	502.6	6.2
20°-30°	951.7	11.7
30°-40°	1578.2	19.4
40°-50°	2155.9	26.5
50°-60°	1957.0	24.0
60°-70°	651.7	8.0
70°-80°	190.1	2.3
80°-90°	20.0	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8145.6	100.0
0°-180°	8145.6	100.0

Coefficient of Utilization



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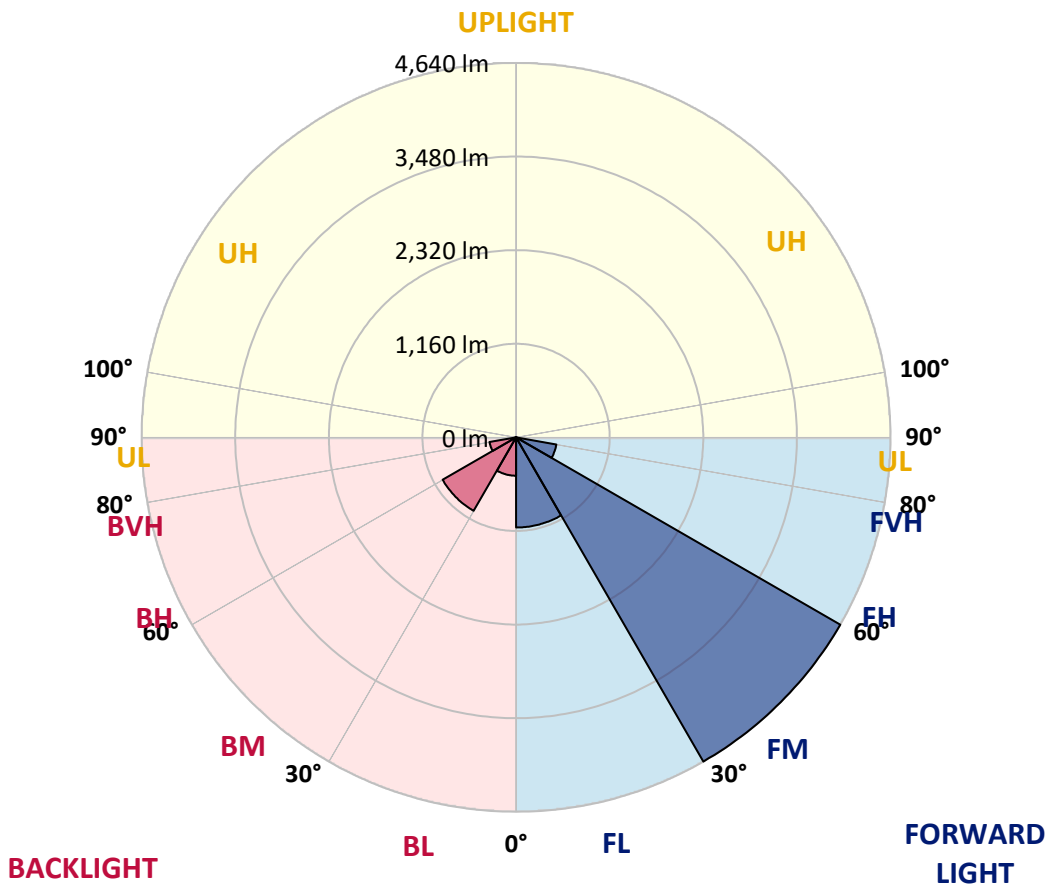
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1117.0	13.7			
FM (30°-60°)	4639.8	57.0			
FH (60°-80°)	507.4	6.2			G0/660
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	475.8	5.8	B1/500		
BM (30°-60°)	1051.3	12.9	B2/2500		
BH (60°-80°)	334.4	4.1	B1/500		G1/500
BVH (80°-90°)	12.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1
2.5°	1599.0	1611.0	1592.4	1593.7	1547.3	1526.1	1466.3	1431.2	1408.0	1342.9	1283.9
5°	1921.5	1907.6	1893.0	1884.3	1843.9	1786.8	1712.5	1653.5	1599.0	1471.7	1348.9
7.5°	2119.2	2111.9	2102.0	2096.7	2056.9	1997.1	1922.8	1872.4	1793.4	1620.9	1427.9
10°	2287.1	2278.5	2272.5	2276.5	2244.0	2205.5	2124.5	2066.8	1977.9	1778.9	1523.4
12.5°	2417.1	2421.8	2423.8	2445.0	2431.1	2407.9	2324.3	2263.2	2164.3	1945.4	1635.5
15°	2520.0	2518.7	2541.9	2582.4	2604.9	2590.3	2523.3	2472.2	2351.5	2109.3	1756.3
17.5°	2543.9	2545.2	2581.7	2652.7	2726.3	2762.2	2724.3	2663.3	2543.9	2271.2	1881.7
20°	2563.1	2565.8	2603.6	2684.5	2792.0	2892.2	2898.2	2854.4	2751.5	2446.3	2009.1
22.5°	2684.5	2690.5	2700.5	2751.5	2848.4	2975.1	3044.8	3035.5	2949.3	2630.1	2146.4
25°	3003.7	2985.8	2937.3	2922.7	2959.9	3062.7	3181.5	3199.4	3156.9	2832.5	2294.4
27.5°	3397.8	3378.6	3306.9	3231.3	3151.0	3186.8	3313.5	3367.3	3367.9	3055.4	2443.0
30°	3755.4	3740.2	3681.8	3573.6	3435.0	3383.2	3476.8	3549.1	3592.2	3312.9	2612.2
32.5°	4061.3	4047.4	3968.4	3880.2	3744.8	3640.6	3674.5	3744.1	3845.0	3646.0	2822.5
35°	4318.7	4304.8	4229.2	4140.3	4014.9	3952.5	3940.5	3988.3	4119.0	3993.6	3064.1
37.5°	4527.7	4513.8	4434.9	4351.3	4255.7	4259.7	4277.6	4300.8	4375.8	4365.9	3322.2
40°	4663.1	4648.5	4592.1	4532.4	4472.0	4519.8	4608.7	4580.8	4620.6	4666.4	3559.7
42.5°	4723.5	4704.9	4672.4	4659.1	4640.5	4714.9	4886.0	4858.2	4810.4	4866.8	3736.2
45°	4663.1	4647.2	4646.5	4687.0	4730.1	4825.7	5077.8	5055.2	4934.5	4963.7	3841.7
47.5°	4478.0	4464.0	4501.9	4608.0	4714.2	4853.5	5163.4	5167.4	5022.7	5004.1	3910.0
50°	4077.9	4068.6	4178.1	4379.1	4562.2	4766.6	5136.2	5182.0	5044.0	4991.5	3901.4
52.5°	3264.4	3307.6	3545.8	3881.5	4237.1	4614.0	5035.3	5095.0	4941.8	4908.6	3855.0
55°	2234.7	2254.6	2492.8	2983.1	3547.1	4283.6	4803.8	4896.0	4821.0	4894.7	3903.4
57.5°	1157.1	1173.1	1360.8	1796.1	2405.9	3385.2	4160.8	4463.4	4577.5	4965.0	4054.0
60°	475.1	488.3	566.0	776.3	1213.5	1971.3	2994.4	3442.9	3711.0	4534.4	3600.2
62.5°	345.0	351.7	388.8	463.1	635.6	966.1	1694.6	1859.8	2048.2	2841.8	2285.8
65°	290.6	297.9	327.8	372.9	463.8	592.5	723.9	727.9	802.2	1157.8	847.3
67.5°	243.5	250.1	276.7	315.2	374.9	420.7	388.8	389.5	388.1	420.0	406.1
70°	189.8	195.1	221.6	262.7	293.9	270.0	303.9	336.4	322.5	335.1	354.3
72.5°	138.7	144.6	167.9	199.1	191.1	192.4	246.2	279.3	271.4	285.3	303.2
75°	100.2	104.2	116.1	99.5	104.8	126.7	173.2	191.1	199.1	211.0	226.9
77.5°	32.5	32.5	36.5	45.8	57.1	70.3	88.2	95.5	107.5	120.8	132.0
80°	16.6	17.3	20.6	25.2	31.8	40.5	51.8	55.1	61.0	68.3	73.0
82.5°	8.0	8.6	10.0	12.6	16.6	21.2	28.5	31.8	35.8	40.5	43.8
85°	2.0	2.0	2.7	4.0	5.3	8.0	10.6	12.6	15.9	19.2	21.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.7	3.3	4.0	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1	1234.1
2.5°	1257.3	1220.2	1172.4	1131.9	1094.8	1066.2	1041.7	1029.8	1018.5	1010.5	1013.2
5°	1291.8	1228.1	1139.2	1077.5	1039.7	1020.5	1007.2	1000.6	999.2	993.9	991.9
7.5°	1342.3	1251.4	1132.6	1070.2	1045.0	1035.1	1027.8	1023.8	1025.8	1020.5	1018.5
10°	1404.6	1289.9	1149.2	1094.1	1072.2	1064.9	1057.0	1051.7	1049.0	1041.0	1039.7
12.5°	1482.3	1337.6	1179.0	1124.6	1102.7	1090.1	1079.5	1070.2	1064.3	1054.3	1051.7
15°	1565.9	1390.7	1214.2	1154.5	1128.6	1110.0	1092.8	1078.9	1068.2	1055.0	1053.0
17.5°	1656.8	1446.4	1243.4	1175.1	1141.9	1117.3	1092.1	1071.6	1057.0	1039.7	1037.7
20°	1751.6	1502.8	1265.3	1185.0	1142.6	1109.4	1075.5	1048.3	1029.8	1012.5	1011.2
22.5°	1849.8	1554.6	1278.6	1182.4	1131.9	1090.8	1050.3	1019.8	997.9	977.3	976.0
25°	1948.7	1604.4	1281.9	1171.7	1110.7	1062.9	1022.5	986.6	962.1	938.9	936.2
27.5°	2048.9	1646.2	1273.9	1150.5	1082.2	1030.4	989.9	954.8	929.6	906.3	902.4
30°	2155.7	1682.0	1256.7	1122.6	1049.0	995.9	956.1	929.6	905.7	882.5	878.5
32.5°	2269.8	1713.2	1232.1	1088.8	1010.5	961.4	932.2	908.3	884.4	863.9	859.9
35°	2405.9	1733.7	1195.6	1045.0	974.7	936.2	916.3	888.4	859.2	836.7	834.7
37.5°	2546.5	1749.7	1151.8	1003.2	943.5	921.6	905.0	867.2	830.7	803.5	800.2
40°	2682.5	1762.9	1097.4	964.1	915.0	911.0	888.4	841.3	778.3	747.8	745.1
42.5°	2809.3	1766.9	1040.4	922.3	889.1	887.1	861.9	788.9	740.5	721.2	718.6
45°	2896.2	1763.6	981.3	883.1	863.2	852.6	826.1	751.1	721.2	704.0	700.7
47.5°	2960.6	1746.3	915.0	842.0	834.0	819.4	762.4	727.2	699.3	682.1	678.8
50°	2949.3	1674.7	848.0	802.2	798.9	786.3	715.9	697.3	672.8	654.2	651.6
52.5°	2890.9	1538.7	779.6	758.4	765.0	740.5	682.7	661.5	640.3	619.0	614.4
55°	2905.5	1440.5	727.9	715.9	727.9	672.1	645.6	623.0	603.1	582.6	578.6
57.5°	2969.2	1343.6	672.8	670.1	682.7	619.7	597.8	569.3	540.8	524.2	524.2
60°	2493.4	979.3	575.9	582.6	611.1	577.2	558.0	528.8	497.6	483.0	483.0
62.5°	1474.3	614.4	477.7	470.4	488.3	509.6	520.2	496.3	459.1	439.9	440.6
65°	649.6	447.2	421.3	415.4	410.0	424.6	453.8	455.8	416.7	394.1	394.8
67.5°	400.1	404.7	394.1	389.5	384.8	382.2	379.5	380.9	370.2	349.7	349.0
70°	360.9	373.6	366.3	362.3	356.3	351.7	335.7	309.9	291.9	286.6	292.6
72.5°	310.5	327.8	323.8	321.8	314.5	303.2	282.0	256.8	235.5	222.3	224.9
75°	234.2	248.2	250.1	250.8	242.8	232.2	210.3	189.1	170.5	156.6	159.9
77.5°	134.7	142.7	144.6	146.6	140.7	136.7	122.1	106.8	96.9	82.3	86.3
80°	75.0	78.3	78.3	79.0	75.6	71.0	61.0	52.4	47.8	41.1	41.8
82.5°	45.1	46.4	47.1	47.8	45.8	41.1	33.8	27.9	25.2	21.9	21.2
85°	21.9	23.2	23.2	23.9	20.6	17.9	13.9	10.6	9.3	6.6	7.3
87.5°	5.3	6.0	6.0	5.3	4.6	3.3	2.0	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)